

Sixteenth Volume—January, 1920, to December, 1920

GENERAL INDEX

[Illustrated articles are indicated thus*. Editorials are indicated thus†]

| | | |
|---|---|--|
| A. | Association Activities. 34, 76, 123, 161, 202, 244, 284, 322, *360, *408, *446, *488 | Canadian National: |
| A. G. A. Railway Light & Signal Co., | Associations Discussed 415 | Construction News 130, 250, 328, 412, 451, 491 |
| Cutting and Welding Torches. 485 | Atchison, Topeka & Santa Fe Construction News. 81, 250, 289, 412, 451, 491 | Mileage Taken Over 163 |
| Abeles & Taussig Tie Corporation. 413 | Atlantic Coast Line Construction News 451 | Canadian Northern Construction News 412 |
| Accidents: | Atlas Machinery & Supply Co. 82 | Canadian Pacific: |
| Grade Crossings 35 | Austin Company 250 | Construction News 250, 289, 491 |
| New York Central at Erie, Pa. 447 | Australia Studies Gage Problem. 409 | Improved Arrangement for Track Scales *378 |
| Train Goes Through Draw Span. 124 | Automatic Train Control: | Introduces Ice Cutting Attachment *146 |
| Accident Prevention Drive on Southern Pacific 79 | Committee Appointed 447 | Capital Expenditures in 1919 6 |
| Accounting: | Discussed 447 | Car Interchange 407 |
| Better Records Necessary *1, 16 | In England 489 | Car Manufacture Statistics 447 |
| Preparation of Reports 177 | | Car Repair Shed Required 324 |
| Standard Form for Bridge Inspection *437 | | Car Shortage Interferes with Maintenance *29 |
| System Used on St. Louis-San Francisco *392 | B | Car Tipper for Grain Elevator 322 |
| Additions and Betterments: | Ball Lumber Company 131 | Carbolinum Wood Preserving Co. 329 |
| Expenditures for 245 | Ballast, Action in Track 153 | Carborundum Company 211 |
| 1920 Statistics 354 | Laying Dust from *487 | Carnegie Steel Company 84 |
| Railroads Ask Loan for 317 | Baltimore & Ohio: | Carolina & Georgia Construction News 130 |
| Adzes: | Bridge at Pittsburgh 285 | Caroline Lines Construction News 451 |
| Adzing Tools, Pneumatic *357 | Construction News 289, 491 | Carter Bloxond Flooring Company 174 |
| Protection from Damage 486 | Bank Protection: | Cement: |
| Air Reduction Sales Company 329 | Bulkhead Construction on Louisville & Nashville *257 | Cleaning Sacks *322 |
| Alaska Railroad: | Barrett Company 173 | Deterioration in Storage *251, 268 |
| Construction Methods 299 | Berg & Hutton Steel Corporation 329 | Manufacture *463 |
| Construction Progress 163 | Big South Fork Railroad Construction News 367 | Cement Gun Company 494 |
| Alberta & Great Waterways Construction News 491 | Blaw-Knox Company 84, 131, 329, 494 | Central of Georgia Construction News 39, 210, 367, 491 |
| Algoma Steel Corporation 173 | Blue Ridge Development Company 491 | Central Railroad of New Jersey: |
| Alignment Company 132 | Boiler Compounds, Water Treatment. 62 | Construction News 491 |
| All Wrenner Products Company 211 | Booth Company, L. M. 329 | Framing Howe Trusses *147 |
| Allan-Diffenbaugh Wrench & Tool Company, Automatic Track Wrench *321 | Boss Nut Company 367 | Central States Tie & Lumber Co. 413 |
| American Association of Engineers: | Boston & Maine Construction News 367 | Central Steel & Wire Company 289 |
| Conference Announced 35 | Bowser & Company, Inc., S. F. 82 | Central Steel Company 329 |
| Fifth Annual Convention Program. 203 | Bridge: | Certes Supply Company 84 |
| Has 20,000 Members 362 | B. & O. Bridge at Pittsburgh 285 | Chain Belt Company 494 |
| Moving Pictures 78 | Brush Guard *486 | Channels, New Standard Weight. 361 |
| Railroad Council 362, 447 | Castleton Cut-off Suit Settled 447 | Champion Company, H. 82 |
| Second Annual Railroad Conference 124 | Concrete Brine Troughs *241 | Chemical Toilet Corporation, Waterless Toilets *70 |
| American Brotherhood of Maintenance of Way Employees: | Delaware River Structure Proposed 447 | Chenoweth & Bettinghouse 289 |
| Reorganization 182 | Detroit River 35 | Chesapeake & Ohio Construction News 367, 492 |
| American Chain Company, Inc. 249 | Erection of Allegheny River Bridge 409 | Chicago & Alton Construction News 451, 492 |
| American Concrete Pipe Association. 35 | Filling Trusses 435 | Chicago & Northwestern Construction News 367, 412, 451, 492 |
| American Engineering Council Meeting Announcement 447 | Fire Protection 29 | Chicago & Western Indiana Construction News 367 |
| American Federation of Labor Favors Government Ownership 324 | Framing Howe Trusses Before Treatment *147 | Chicago, Burlington & Quincy: |
| American Hoist & Derrick Co. 368 | Influence of Present Material Prices *187 | Concrete Slabs Under Railway Crossings *143 |
| American Iron & Steel Corp. 329 | Inspection Forms *437 | Construction News 130, 289, 367, 412, 451 |
| American Manganese Steel Company 329 | Inspection Reports *143 | River Bank Protection *67 |
| American Mason Safety Tread Co. 494 | Maintenance in Transition *146 | Tunnel Construction *255 |
| American Railroad Association: | Painting 475 | Valuation Engineers Study Shrinkage 256 |
| Annual Meeting 489 | Rapidly Building 35 | Chicago Great Western Construction News 367, 412, 492 |
| Report on Substitute Ties *339 | Reinforcing Pins for Truss Spans. *57 | Chicago, Indianapolis & Louisville Construction News 451 |
| American Railway Bridge and Building Association: | Repair of Concrete Surface *487 | Chicago, Milwaukee & St. Paul: |
| Committee Assignments 34 | Repairing Track Elevation Columns *352 | Construction News 328, 367, 451 |
| Convention Program 408 | Report on Fires 111 | Electric Locomotive 35 |
| Convention Report *429 | Saublesting of Piers 45 | Reclamation Work *102 |
| American Railway Engineering Association: | Settlement of Piers *313 | Reinforcing Pins of a Truss Span *50 |
| Becomes Member of Engineering Council 202 | See Timber Preservation. | Sinking Test Holes *380 |
| Committee Progress 34 | Steel Erection Safety 13 | Track Depression in Minneapolis 36 |
| Committee Work Assigned 244 | Trestle Renewing Methods *301 | Water Supply *359 |
| Convention Program 123 | Bridge and Building Supply Men's Association Exhibit Report 441 | Chicago Pneumatic Tool Company 41, 84, 132, 211, 290, 330 |
| Nomination of Officers 76 | Bridgeport Chain Company 414 | Hand Hold for Hand *70 |
| American Railway Express Company, Wage Advances 362 | Brier Hill Steel Company 84, 132 | Chicago, Rock Island & Pacific: |
| American Society of Civil Engineers: | Brooks-Fisher Company 173 | Construction News 81, 289, 367, 412, 451, 492 |
| Annual Meeting 76 | Brooks Iron Company, E. & C. 82 | Housing Employees *296 |
| Convention Plans 285 | Brotherhood of Maintenance of Way Employees and Railway shop Laborers: | P |

- Concrete:
 Improved Construction Practice... *334
 Repair of Surface *487
 Concrete Mixing & Placing Company... 132
 Concrete Posts for Highways... *231
 Concrete Products Corporation, Ltd... 249
 Consolidated Pneumatic Tool Company 330
 Construction Equipment Rental Charges 123
 Construction in 1919 5
 Continuous Rail Joint Company... 84
 Contracting Maintenance Work..... 4
 Convention:
 Advantages of *305
 Arrange to Attend †292
 Conveyor Corporation of America... 454
 Cook Paint & Varnish Company... 174
 Cornwall Railroad Construction News... 451
 Court Decisions 288, 409
 Cross & Simmons, Inc. 289
 Cross, Neal & Co. 289
 Crossings, Highway:
 Auto Vehicle Regulations 324
 Concrete Construction *350
 Good View Essential 333
 Macadam Construction *349, 400
 More Attention Necessary †292
 Recent Construction Practice *349
 Crossings, Railway:
 Concrete Slab Foundation *143
 Eymon Continuous Rail Crossing... *336
 Crucible Steel Company 132
 Culvert Pipe Committee 36
 Curves, Superelevation †135
- D**
 Dayton & Troy Electric Construction News 492
 Dayton Mechanical Tie Company... 131, 132
 Delaware & Hudson Construction News 367
 Delaware, Lackawanna & Western:
 Construction News 130
 Track Inspection 49
 De Mayo Engineering Corporation... 413
 Denver & Rio Grande Construction News 412
 DeQueen & Eastern Construction News 172
 Derricks, Portable *279
 Detroit, Toledo & Ironton Construction News 289, 451
 Dickinson Company, Paul, Camp Car Chimney *304
 Ditching:
 Home Made Level for *486
 Spreeder Car Used *157
 Dixon Crucible Company, Joseph... 249, 290
 Docks, Maintenance of 433
 Door Latch *360
 Drill Bits, Proper Use of 424
 Drills, New Jackhammer... *158
 Duff Jack Sales Company, Ltd... 82
 Duff Manufacturing Company... 42, 82, 454
 Duluth & Iron Range Construction News 492
 Duntley-Dayton Company 82
 Duntley Pneumatic Tool Company... 82
 Durand Co-operative Association... 78
- E**
 Edinburg, Falfurrias & Gulf Construction News 328
 Efficiency:
 Contest on Restoration †175
 Incentive Necessary 418
 Increasing 269, 309, 345, 443
 Track Labor 392
 Electric Snow Melter *189
 Elgin, Joliet & Eastern:
 Construction News 452
 Publicity Attracts Laborers *337
 Engineering Council:
 Appeal for Funds 35
 Studies Licensing 77
 Engineers:
 Classification of 36, 114
 Interest in Other Branches of the Service †370
 Engineering Business Exchange... 413
 Engineering Institute of Canada... 42
 English Maintenance Methods *372
 Erie:
 Construction News 172, 210
 Operating Statistics 362
 Reorganization *99
 Track Inspection 49
 Esquimaux & Nanaimo Construction News 81
 Estimating Track Materials *314
 Exports of Track Material 324, 409
 Eymon Crossing Company, Continuous Rail Crossing *336
- F**
 Fairbanks & Co., E. & T., New Track Scale *229
 Fairbanks Company 82
 Fairbanks, Morse & Company... 41, 131, 494
 Fairmont Gas Engine & Railway Motor Car Co., New Ball Bearing Engine *101
 Federal Malleable Company 494
 Federated American Engineering Society:
 Convention Report 489
- Federated Engineering Societies:
 Association Formed 285
 Conference in Washington 362
 Fencing Station Grounds *375
 Ferguson Company, H. K. 211, 368, 413
 Ferguson Steel & Iron Company... 42
 Fire:
 Burning Ties Under Wires..... †213
 Fire Resistant Wood 344
 Losses on Railroad 35
 Prevention in Forests 30
 Protection of Bridges 29
 Reports on Bridge Floors 111
 Flemingsburg & Northern Construction News 130
 Flood, Upper Mississippi During April. 203
 Floors, Maintenance of †85
 Ford Roofing Products Company... 84
 Foreman:
 His View on Labor Problems... 293
 Improved Morale Necessary †253
 No-Accident Drive 60
 Rules for 381
 Selection for Yards 139
 Forest Products Laboratory Celebration 203, 324
 Forests, Fire Prevention 30
 Fort Dodge, Des Moines & Southern: Construction News 452
 Fort Worth & Denver City Construction News 367
 Fort Worth & Mineral Wells Construction News 81
 Foundation Company 250
 Freight Claim Prevention 489
- G**
 Gage Problem of Australia 285
 Gainesville-Sherman Traction Company Construction News 81
 Gas Engine, New Fairmont Ball Bearing Engine *101
 General Electric Co., Electric Rivet Heater *98
 General Railway Devices Company... 494
 Georgia Lumber Company Construction News 39
 Goethals & Co., George W. 494
 Golden Belt Line Construction News 81
 Government Control:
 End of †88
 Lesson of †87
 Grade Crossing Elimination—Wisconsin Program 78
 Grade Separation—Track Depression at Minneapolis 36
 Grand River Railway Construction News 250
 Grand Trunk Construction News... 452, 492
 Graver Corporation 82, 132, 494
 Graver Tank Works, William 82
 Great Central Railway of England, Landslide on *151
 Great Northern Construction News... 367, 452
 Great Western Railway of England, Cross Tie Service Record... 91
 Grip Nut Company 249
 Guard Rail Spiking 383
 Guggenheim Mining Company 290
 Gulf Coast Lines Construction News... 492
 Gulf, Colorado & Santa Fe Construction News 492
 Gulf, Florida & Alabama, Ditching... *157
 Gulf, Mobile & Northern Construction News 492
 Gulf Ports Terminal Construction News 412
- H**
 Hannigan Takes a Chance *136
 Hauck Manufacturing Company 494
 Highland Iron & Steel Company 131
 Housing:
 Advertising a Good Camp *337
 Camp Car Chimney *304
 Foremen's Houses on M. K. & T. *304
 Necessity for Good Accommodations †252
 Operation of Camp Cars 480
 Rock Island Bunk Cars *296
 Waterless Toilets *70
 Houston & Shreveport Construction News 492
 Hyatt Roller Bearing Company... 132, 174, 211, 249, 289
- I**
 I-Beams, New Standard Weight... 361
 Ice Must Be Conserved †252
 Idaho Central Construction News... 452
 I'll Give Him a Tussle Next Time... 342
 Illinois Central:
 Chart Demonstrating Water Waste Construction News... 39, 172, 412, 452, 492
 Water Conservation *217
 Illinois Southern Railroad Abandonment 35
 Imperial Belting Company 131
 Independent Pneumatic Tool Company 132, 211, 494
 Index Must Be Ordered †415, †455
 Indianapolis Switch & Frog Company... 132
 Industrial Relation 43
 Ingersoll-Rand Company... 42, 174, 249, 289
 New Tool Sharpener *358
- Inspection:
 Influence of 457
 New York Central 119
 Pennsylvania Award 441
 International Railway Supply Company 41
 International Railway Supply Company of Cuba 41
 Interstate Commerce Commission:
 Appropriation for 245
 Loans for A. & B. Work... 366
 Interstate Iron & Steel Company... 290
 It Was Nobody's Business... *184
- J**
 J. B. Engineering Sales Company... 494
 Jackson Terminal Company 413
 Japanese Railroad Electrification... 333
 Jordan Company 454
 Joyce Company, William T. 289
 Joyce-Cridland Company 82
- K**
 K-G Welding & Cutting Company... 249, 413
 Kalamazoo Railway Supply Company... 41
 Electric Tie Tamper *92
 Kanawha & Michigan Construction News 492
 Kansas & Colorado Construction News 81
 Kansas City Southern Organizes Maintenance of Way Association *382, †416
 Kansas, Oklahoma & Gulf Construction News 492
 Kilby Frog & Switch Company... 41
 Kinks *277, *320, *356, *383, *486
 Kinsey Company, E. A. 41
 Kon-Wald Engineering Company ... 173
- L**
 Labor:
 Advantage of Permanent Force... †370
 Attitude of Officers Important... †417
 Changing Track Requires New Methods †417
 Constructive Policy Necessary... †371
 Court of Industrial Relations... 13
 Efficiency of 392
 Feeding Men on Nashville, Chattanooga & St. Louis... *469
 Hobo Disappearing 307
 Importance of Incentive 418
 Improving Personnel †456
 Influence of Competition †214
 Influence of Immigration 242
 Loyalty Encouraged †370
 Maintenance Employees Statistics 220
 Measures for Improving 480
 Medals Given Employees *302
 Mexicans and the Bonus System... 64
 Morale in Jeopardy †135
 Permanent Forces Desirable †331
 Reasonable Treatment Necessary... †293
 Restoring Efficiency †134
 See Efficiency.
 See Housing.
 See Wages.
 Shortage May Be Reduced... †43
 Subordinate Officials Defined... 489
 Supervision Necessary †133
 Supply of 89
 Turnover Reduction †2
 Turnover Study *226
 Uniform Agreement †3
 Labor-Saving Devices:
 Essentials for Success †332
 How to Obtain Best Results †214
 Lackawanna Bridge Company 42
 Lackawanna Steel Company 211
 Desseaming Rails 376
 Ladder Guard *228
 Lake Erie & Northern Construction News 250
 Lakewood Engineering Company ... 413
 Landes & Co. 368
 Leahy Rail Truck Company, Rail Handling Dolly *384
 Leake & Co., T. S. 494
 Legislation:
 Esch-Cummins Bill Passed 120
 Influence of †44
 Lehigh Portland Cement Co. Construction News 130
 Lehigh Valley:
 Construction News 210, 492
 Rail Bonding *427
 Rail Laying with Locomotive Cranes *466
 Lehon Company 132
 Leighton Company, M. O. 329
 Linde Air Products Company, Welding Test *348
 Link-Belt Company 132, 289
 Linseed Oil Substitute 65
 Locomotive Crane—New Bucyrus Shovel *149
 Locomotive Cranes Used in Laying Rail *467
 Long Island Construction News... 492
 Employees' Mutual Relief Association 203
 Track Inspection Results 50
 Louisiana & Northwest Construction News 39
 Rapid Bridge Construction 35

- Louisiana Railway & Navigation Company, Condition of Maintenance in Question 220
- Louisville & Nashville: Bulkhead Protection *257
- Construction News 39
- Fencing Station Grounds *375
- Railroad Employees' Co-operative Association 163
- Record for Crosstied Piles *23
- Renewing Trestle Under Traffic... *301
- M**
- McDonough Manufacturing Company.. 132
- Madden Company 249
- Maintenance Allowance 442
- Maintenance Equipment Company... 449
- Portable Derricks *279
- Maintenance of Way:
- Accounting Expenditures 283
- Accounting Methods 318
- Accounting Methods on Frisco... 392
- Advantage of Doing Work Well.. *416
- Advantage of Winter Work *370
- Allowance During Guarantee Period 489
- Better Methods Necessary 16
- Chinese Methods *74
- Condition of L. R. & N. in Question 220
- Contract Work 285
- Co-operation with Other Departments 117
- Deferred *187
- Deficiency on Chicago, Rock Island & Pacific 202
- Efficient Methods 269
- English Methods *372
- Government Control Period 7
- Increasing Efficiency *309, *345
- Interference Influence of Car Shortage *291
- Interference of Increased Traffic.. *213
- Interference with Operating Department *291, 457
- Kansas City Southern Association *382, 416
- Motor Trucks *11, 33
- Outlook Improved *251
- Plan Season's Work *2
- Reduced Expenditures for Supplies 379
- Retrenchment Policy *456
- Returns from Railroad Administration 112
- Maintenance of Way Master Painters' Association:
- Addition to Program 408
- Advantage of *455
- Convention Notice 446
- Convention Program 366
- Convention Report *475
- Maintenance Settlements 316
- Manganese Steel in Track Work... 444
- Manning, Maxwell & Moore, Inc.... 413
- Marine Boreers:
- See Timber Preservation.
- Marsh & Truman Lumber Company... 174
- Massey Concrete Products Corporation 249
- Material Handling Machinery Manufacturers' Association Convention 79
- Material Market 33, 77, 122, 162, 202, 243, 284, 323, 361, 405, 446, 488
- Merchant & Evans Company 211
- Mexico, Recent Developments 182
- Miami & Tampa Construction News.. 130
- Miami Corporation Construction News. 492
- Michaels Company, Hyman 289
- Michigan Central:
- Concrete Brine Troughs *241
- Construction News 39, 452
- Michigan Northern Construction News 130, 367
- Midland Valley Construction News... 452
- Miller, James S., Company 290
- Minneapolis & St. Louis Construction News 452
- Minneapolis, St. Paul and Sault Ste. Marie:
- Construction News 452
- Restoring Edges of Track Chisels.. *154
- Minwax Company, Inc. 413
- Missouri, Kansas & Texas:
- Construction News... 328, 367, 452, 492
- Housing Section Foremen *304
- Motor Car Accident Prevention... 22
- Missouri Pacific Construction News... 452, 492
- Moorefield Southern Construction News 39, 130
- Morgantown & Wheeling Construction News 130
- Morse Chain Company 173
- Moss Tie Company, T. J. 454
- Motor Car Accidents 22, 35
- Motor Trucks in Maintenance... *71, 32
- Mudge & Company 211, 212, 249, 368
- Murphy Varnish Company 42
- Nashville, Chattanooga & St. Louis, Feeding Maintenance Employees *469
- National Agreement, Proposed New Agreement 232
- National Association of Railroad Tie Producers:
- Convention Notice 446
- Convention Postponed 163
- Convention Report *191
- National Lumber & Creosoting Co... 174
- National Malleable Castings Company. 174
- National Public Works Department Association 329
- National Railway Appliances Association—List of Exhibitors 484
- National Railway Appliances Exhibit: An Appreciation 177
- List of Exhibitors *95
- National Railway Service Corporation. 362
- Nelson & Sons, Joseph E. 41, 329, 494
- New Books:
- American Civil Engineers' Handbook Building Estimators' Reference Book 254
- Engineering and Building Foundations 178
- Non-Technical Chats on Iron and Steel 457
- Proceedings, American Railway Bridge & Building Association 254
- Proceedings of American Railway Engineering Association 178
- Proceedings American Wood Preservers' Association 418
- Railroad Curves and Earthwork... 418
- Text Book of Materials of Engineering 33
- Newburgh & South Shore Construction News 210
- New Orleans Great Northern, Treatment of Piles *462
- New York & New Jersey Port Commission Construction News... 130
- New York Central:
- Construction News 172, 452, 492
- Employees Purchase Stock 79
- Results of Corrosion Tests *274
- Track Inspection Results 119
- Wins Castleton Cut-off Suit... 163
- New York, New Haven & Hartford Construction News... 210, 367, 492
- Norfolk & Western:
- Construction News 367, 492
- Reducing Expenditures 379
- Strike of Clerks 203
- North Carolina Roads (Electric) Construction News 412
- Northern Pacific Construction News... 412, 492
- Northern Railway of France, Restoration of 324
- Nut Locks—New Design *18
- O**
- Ocean Shore Construction News... 452, 492
- Officers, Burden on 11
- Ogden Union Depot Company Construction News 412
- Oil, Corrosion 216
- Oil Fields Short Line Construction News 130
- Oklahoma Southwestern Construction News 130, 250
- Old Pop, the Dependable *19
- Onondaga Steel Company 329
- Operating Results, Deficit in May... 319
- Operating Statistics 36, 163, 324, 406, 409, 447, 482
- Canadian National Railways... 203
- Organization, Classification of Timber Treating Experts 110
- Oxweld Acetylene Company... 211, 329, 368
- Oxweld Railroad Service Company... 132, 311, 212
- P**
- P. & M. Company, Rail Anchor on English Rail *344
- Pacific Fruit Exchange Company Construction News 452
- Pacific Great Eastern Construction News 131, 452
- Pacific Great Western Construction News 81
- Page Steel & Wire Company... 173, 249, 289
- Painting:
- Fire Resistant Paint 344
- New Paint Sprayer *236
- Spray Painting 432, 479
- Steel Bridges 475
- Substitute for Linseed Oil 65
- Palatine, Lake Zurich & Wauconda Construction News 452
- Panhandle Short Line Construction News 39
- Patton Paint Company 42
- Payne, John Barton, Appointed Director General 240
- Pennsylvania:
- Construction News 367, 452
- Medals for Employees *302
- Motor Trucks in Maintenance... 33
- Reclamation Work on *198
- Renewing Double-Slip Crossings.. *141
- Reorganization Plan *99, 125
- Pennsylvania Offices Corporation: Construction News 250
- Pension on Missouri Pacific 362
- Pere Marquette:
- Construction News 39, 367, 492
- Track Inspection 50
- Perforating Ties for Treatment... 108
- Philadelphia & Reading:
- Construction News 172, 289, 493
- Distributing Cross Ties 300
- Pierce Company 42
- Piles:
- Calculating Volume of 160
- See Timber Preservation
- Pittsburgh-Des Moines Steel Co.... 82
- Pittsburgh & Shawmut:
- Construction News 210
- Pittsburgh Spring & Steel Company.. 413
- Platt Iron Works 329
- Poles:
- Calculating Volume of 160
- Portland Cement Association 132
- Positive Rail Anchor Company:
- Flat-base Switch Point *304
- Posters Aid Reclamation *102
- Potato Creek Railroad:
- Construction News 453
- Preservatives:
- See Timber Preservation.
- Priceless Property *297
- Protexol Corporation 329
- Pruden Company, C. D. 131
- Q**
- Q. & C. Company 42, 131, 132
- Compromise Splice Bar *280
- Snow Melter *189
- Quebec & Chibougamou:
- Construction News 493
- Quebec Central:
- Construction News 81, 210
- R**
- Breaking Made Easy *320
- Commandeered by Railroad Administration 78
- Deseaming Decreases Failures... 376
- Dolly for Handling *384
- Economic Weight of *371, 79
- Export 79
- Failure Statistics for 1919 485
- Improved Quality 25
- Influence of Heavy Locomotives.. *176
- Production in 1919 231
- Production in Canada 245
- Relation of Axle Load to Weight.. *144
- Renewals Under Government Control 7
- Seams in Rail Bases 150
- Situation in February, 1920... 145
- Snow-Burnt 368
- Suit in Court of Claims 324
- Titanium Treated Rail Service Record 197
- Rail Anchor:
- P. & M. Anchors on Bull-Head Rails *344
- Rail Creeping:
- Cause and Prevention 55
- Problem of 447, 455, *464
- Rail Joints:
- Bonding with Labor-Saving Tools *427
- Compromise Splice Bar *280
- Maintenance 389
- Rail Joint Company 84
- Rail Laying:
- Lehigh Valley Methods *467
- With Locomotive Cranes *455
- Rail Orders:
- Distribution of 121
- Railroad Administration:
- Activities in December, 1919... 31
- Activities in January, 1920... 71
- Activities for February *120
- Activities in March *155
- Activities in April 200
- Cost of Government Control 285
- Division of Liquidation Claims... 121
- Guarantee Payment 443
- Maintenance of Way Statistics... 112
- Number of Officers 447
- Six Months' Guarantee 354
- Railroading Here and There:
- Blizzard Hits Eastern States... *97
- Canadian Rockies *231
- Cement Manufacture *463
- Cross Tie Production *377
- Marine Boreers *343
- Mexican Railroads *145
- News, January Issue *15
- Roundhouse and Shop Facilities.. *303
- Strikes and Storms *183
- Swiss Bridge Construction 261
- Trans-Siberian Railroad *61
- Wrecks and Fires *425
- Railroads, Unscrambled 60
- Railroad Water & Coal Handling Company:
- Motor Water *355
- Railroad Y. M. C. A. Conference... 409
- Railway Business Association 494
- Annual Meeting 78, 208
- Railway Facilities Must Be Enlarged. 8
- Ramapo Iron Works 174
- Rate Advance Applied for... 240
- Rate Increase 283, 353
- Reading Iron Company 41, 82, 174

- Reclamation:
 Bridge and Building and Water Supply 436
 Necessity for Continuing *213
 Pictures as an Aid in *198
 Posters Aid *102
 Refill Company 329
 Reforestation 194
 Replogle Steel Corporation 132
 Republic Creosoting Company 132
 Review of 1919 *5
 Rea, Frank, Returns to China 409
 Richardson & Gay 250
 Richardson & Hale 250
 Richmond, Fredericksburg & Potomac:
 Construction News 367, 453
 Track Inspection 49
 Right-of-Way Monuments *308
 Ringling, Eastland & Gulf:
 Construction News 81, 289
 River Bank Protection:
 Flexible Joints on Burlington *67
 Riveting:
 Pneumatic Hammer Devices *70
 Rivets:
 Electric Heater *98
 Roadbed:
 Earth Slide Prevention *160
 Shrinkage of 256
 Unusual Landslide on English Road *151
 Roadmasters' and Maintenance of Way Association:
 Convention Attendance Urged *331
 Convention Program 322
 Convention Report *385
 Issues Questionnaire Organized in 1883 *370
 Roberts & Schaefer Company 82
 Robinson & Co., Inc., Dwight P. 173; 329, 413
 Rutland:
 Construction News 493
 Ryan Changes His Mind *93
 Ryerson & Son, Joseph T. 42, 211
- S**
 Sacramento Northern:
 Construction News 39
 Safety:
 Accident Prevention Work Result 203
 Handy Stop Signal *243
 In Steel Erection 13
 Ladder Guard *228
 Motor Car Accidents 22
 New York Central Asked to Try Automatic Stop 362
 No-Accident Campaign on B & O 447
 No-Accident Drive 60
 Safety Nut & Bolt Company:
 Nut Locks *18
 Safford, H. R., Doctor of Engineering 285
 Saint Clair Terminal:
 Construction News 39
 Salt Lake & Denver:
 Construction News 81
 San Antonio, Rock Springs & Northwestern:
 Construction News 289
 San Francisco-Oakland Terminal:
 Construction News 493
 Sandblasting Steel Bridges 45
 Sante Fe-Northwestern:
 Construction News 453
 Schierbecker Tie & Lumber Co. 413
 Sherwin-Williams Company 41, 249
 Shovel:
 New Revolving Shovel *149
 Test of Electric Shovel 342
 Signal:
 For Bunk Cars *243
 Signaling:
 Block Signal Mileage 285
 Simmons Associates, Inc. 289
 Slides:
 On English Road *151
 Pennsylvania at Pittsburgh 489
 Prevention of *160
 Smythe, Clayton L.
 Services Discontinued 175
 Snow. See Winter.
 Southern:
 Construction News 131, 250, 493
 Southern Pacific:
 Construction News 412, 493
 Discontinues Joint Operation with Western Pacific 163
 No-Accident Drive 60
 Supply Train Operation 79, 338
 Washouts in Texas *11
 Southern Pacific, Texas & Louisiana Lines:
 Construction News 453
 Southwark Foundry & Machine Co. 368
 Southwest Texas Construction Company:
 Construction News 39
 Spaulding Logging Company:
 Construction News 493
 Spike Straightener *356
 Spreader:
 Used to Build Embankments *278
 Used to Remove Ice 321
 Ice Cutting Attachment *146
 St. Louis Pump & Equipment Co. 454
 St. Louis Railway Exposition 489
 St. Louis-San Francisco:
 Construction News 289, 328, 452, 493
- St. Louis Southwestern:
 Construction News 412
 St. Paul Union Station Headhouse Open 203
 Standard Asphalt & Refining Company 41
 Standard Paint Company 414, 454
 Standard Scale & Supply Company 132
 Steel:
 High-Speed in Drill Bits 424
 Steel Shapes Committee 245
 Stone & Webster 82, 250
 Storms:
 February Storms Block Railroads *97
 Strauss Bascule Bridge Company 211
 Strike by Switchmen 201
 Stucco:
 Investigations of *251
 Rules of Standard Practice 281
 Subscription Expiration *175
 Subscription Rate Advance *369
 Sugar Pine Railway:
 Construction News 493
 Sullivan Machinery Company 212, 250
 Supervision:
 Burden on Officers *1
 Problems of 237
 Responsibility for Morale *416
 Roadmasters' Report on 396
 Rules for Foremen and Men 381
 Supply Trains on Southern Pacific 338
 Switch:
 Flat-base Switch Point *304
 Methods of Installing 321
 Special Switch Fittings *379
 Switches:
 How to Anchor 358
 Laying Quickly 383
 Renewal of Double Slip *141
 See Turnout.
- T**
 Tacony Steel Company 454
 Tampa Southern:
 Construction News 131, 453
 Technical Publicity Association 329
 Templeton, Kenly & Co., Ltd. 454
 Tennessee:
 Construction News 493
 Texas & Pacific:
 Construction News 367, 453, 493
 Texas Central:
 Construction News 453
 Texas, Oklahoma & Eastern:
 Construction News 453
 The Best Reason in the World *419
 Thornley & Co., Inc., F. C. 82
 Tie Plates, Tests of Copper Steel Plates *274
 Tie Renewals:
 Influence of Treated Timber *224
 Methods Used on Various Railroads *421
 Relation to Depreciation *222
 Ties:
 A. R. A. Report on Substitutes *339
 Available Supply in United States *396
 Burning for Fuel 35
 Central Inspection Bureau 195
 Classification on the Philadelphia & Reading 300
 Condition of Tie Supply *333
 Deterioration of Sap Pine 185
 Douglas Fir Supply 192
 Eliminate Nipping 321
 Freak Bill in Senate 35
 Long Service From Douglas Fir 91
 Old Ties Used as Fuel *292
 Preparation for Treatment 104
 Production in 1919 193
 Production on Pacific Coast 191
 Production Situation *191
 Properties of Western Timber *473
 Protect From Burning at Water Columns 384
 Redwood Supply 193
 Service Record 103
 Situation in February, 1920 145
 Standard Specification Desirable *176
 Statistics for Government Control Period 8
 Tie Burning at Water Columns 384
 Tie Tamper:
 Electric Machine *92
 Organization and Method *115
 Platforms for 357
 Timber:
 Durability of 30
 Fire Resisting Paint 344
 Value of Live and Dead Trees 375
 Timber Preservation:
 Classification of Timber Treating Men 110
 Creosote Eaten by Woodpeckers 4
 Creosoted Pile Record *23
 Depth of Penetration 111
 Dry Rot Defined 295
 Framing Howe Truss Before Treatment *147
 Marine Borers Study 296
 More Softwood Used *85
 Non-pressure Treatment 108
 Perforating Patents Made Public *17
 Plant Operation *109
 Protection Against Marine Borers *51
 Receiving More Attention *85
 Report on Treated Timber 429
 Roadmasters' Association Report 395
 Salt Treatment of Piles *462
- See American Wood Preservers' Association *103
 Sodium Fluoride as Preservatives 142
 Sodium Fluoride Is Expensive 338
 Statistics for 1919 *445
 Theoretical Studies 107
 Tools and Equipment:
 Care of Tools for Painting 477
 Tool Sharpener *358
 Torches:
 Welding 485
 Track:
 Equated Values 391
 Estimating Materials *314
 Manganese Steel 444
 Stresses in *134, *176
 Track Inspection:
 Reports of 49
 Track Jacks:
 Leverage of *9, 253
 Safe Use of *66
 Track Lever *384
 Trackman:
 Requirements 178
 Track Material Exports 324
 Track Scales:
 New Design *229
 Scale House Construction *378
 Tapered Platform *378
 Track Spikes:
 New Design *73
 Track Supply Association:
 Exhibit Report *403
 List of Exhibitors 323
 Track Work:
 Breaking Rail 216, *320
 Dragging Rail Through Tunnels 357
 Driving Expansion 178
 Improving Line and Surface 426
 Keeping Bolts Tight 59
 Low Joints in Highways 320
 Methods of Speeding Up 258
 Neatness *143
 Placing Tie Plates 279
 Reducing Joint Churning 320
 Renewing Double Slip Crossings *141
 Skidding Track with a Ditcher 277
 Spiking Guard Rails 383
 Spiking Methods 357
 Starting Spikes 277
 Traffic Statistics 78
 Train Stopping Fuel Consumption 124
 Transportation Conditions 406, 482
 Trestle—See Bridge.
 Tunnels:
 Colorado Commission Approves Plans for Three Great Tunnels 285
 Pouring Tunnel Lining *255
 Proposed State Construction in Colorado 124
 Turbine Air Tool Company:
 Pneumatic Adzlers *357
 Turner Learns a Lesson From His Son Turnout:
 Lengthen 88
 Turntable:
 Air-Operated Lock *382
 Erection Methods *374
- U**
 Union Pacific:
 Construction News 328, 412, 453, 493
 Erecting a Turntable *374
 Improvement of Water Supplies *265
 Water Tanks *158
 Unit Construction Co. 413
 United Brotherhood of Maintenance of Way Employees and Railway Shop Laborers:
 Co-operative Purchases *144
 Difficulty 182
 Strike Called off *117
 Strike of 186
 United States Board of Surveys and Maps 163
 United States Cast Iron Pipe & Foundry Company 131
 United States Chamber of Commerce Favors Department of Public Works 203
 United States Department of Public Works:
 Referendum on 245
 United States Graphite Company 494
- V**
 Valley Tie & Lumber Company 131
 Valuation:
 Appropriation for 78
 Cost of Land Must Be Considered 156
 Maps Need Not Be Filed 140
 Study Roadbed Shrinkage 256
 Work in 1919 *5
 Vanadium Corporation of America 329
 Virginian:
 Construction News 131
 Vortex Manufacturing Company:
 New Paint Sprayer *236
- W**
 Wabash:
 Construction News 250
 Wages:
 Adequate Wages Necessary 136
 Avoid Overtime 186
 Award of the Labor Board 294

| | | | | | |
|-----------------------------------|----------------------------------|--|---------------|---|----------|
| Demand by Maintenance Brotherhood | 232 | Water Motor | *355 | Willard's, Daniel, Opinion on Wage Increase | 352 |
| Good Wages Necessary | 293 | Weed Killing: | | Williams & Co., J. H. | 329 |
| Hearing Before Labor Board | 262 | Use of Salt | *230 | Williams-Hayward Company | 131 |
| Increases Must Be Earned | *292 | Welding: | | Winter: | |
| Inequalities in Wage Award | *231 | Report on | 401 | Conditions in Upper Michigan | 136 |
| Influence of High Wages | *214 | Test of | *348 | Cutting Ice with Spreader | *146 |
| Influence on Railroad Earnings | 218 | Torches | 486 | Facilitating Switch Movements | *189 |
| Subordinate Officials Defined | 148 | Wellman Bibby Company, Ltd. | 173 | Prepare for | 1415 |
| Washington News | *240, *316, 353, 406, *442, *482 | Wells—See Water Service | | See Storms | |
| Washouts: | | Wells Lumber Company, J. W.: | | Snow Fighting Equipment | *458 |
| On Southern Pacific | *11 | Construction News | 172 | Using Snow Equipment for Summer Work | *219 |
| Waste Disposal | 159 | Western Maryland: | | Wireless Equipment on Railroads | 409 |
| Water Pail | 356 | Construction News | 367 | Woods & Co., Edwin S. | 249 |
| Water Service: | | Construction News | 453, 493 | Worthington Pump & Machinery Corp. | 299, 329 |
| Concrete Tanks in Cuba | *58 | Discontinues Joint Operation with Southern Pacific | 163 | Wrench: | |
| Demonstration of Water Waste | *483 | Western Railway of Havana: | | Automatic Track Wrench | *321 |
| Large New Terminal | *359 | Concrete Water Tank | *58 | Yale & Towne Manufacturing Company | 249, 329 |
| Pumping with Electricity | 430 | Western Wheeled Scraper Co. | 454 | Young Manufacturing Company, R. W. | 249 |
| Recent Developments | *179 | Westinghouse, Church, Kerr & Co. | 173, 289, 329 | Z | |
| Reducing Water Waste | 215, *217 | White Management Corporation, J. G. | 413 | Zanesville & Western: | |
| Sinking Test Holes | *380 | Whitman & Barnes Manufacturing Company | 329 | Construction News | 493 |
| Water Tanks: | | Wichita Falls & Southern: | | Zelnicker Supply Company, Walter A. | 84 |
| False Bottoms for | *158 | Construction News | 493 | | |
| Maintenance of Tank Hoops | 431 | Wichita Falls, Ranger & Fort Worth: | | | |
| Water Treatment: | | Construction News | 493 | | |
| Boiler Compounds | 62 | | | | |
| General Requirements of | 27 | | | | |
| Union Pacific Methods | *265 | | | | |

PERSONAL MENTION

(Photographs are indicated thus*. Obituaries are indicated thus †)

| | | | | | |
|------------------------|-------------|------------------------|-----------|-------------------------|-----------|
| A | | Bixler, Harry Z. | 132 | Cherry, J. T. | 327 |
| Aagaard, P. | 494 | Bland, J. V. | 38 | Cherry, O. E. | 209 |
| Abbott, R. B. | 164 | Blanton, J. C. | 413 | Chesney, O. V. | 411 |
| Acheson, A. M. | 206 | Blauvelt, L. D. | 166 | Chumley, C. M. | 287 |
| Adams, C. J. | 364 | Bliss, T. E. | 168 | Church, S. L. | 246 |
| Adams, E. Eugene | *205 | Blowney, W. W. | 327 | Capp, J. B. | 365 |
| Adams, Lem | 286 | Bond, E. T. | 167 | Clark, C. C. | 491 |
| Adair, C. R. | 325 | Bond, L. H. | 287 | Clark, P. | 327 |
| Aikman Hugh | 329 | Bond, R. J. | 207 | Claus, W. | 166 |
| Ainslie, A. F. | 365 | Bond, Thomas S. | 325, 363 | Clawson, H. P. | 413 |
| Aishton, R. H. | *165 | Bonzano, M. F. | 491 | Clayman, Walter F. | 38 |
| Albaugh, Roy B. | 205 | Booth, C. A. | 173 | Clayton, M. S. | 494 |
| Alexander, V. M. | 210 | Booth, G. V. | 38 | Clontz, I. B. | 364 |
| Allen, E. Y. | 37 | Booz, H. C. | 129 | Cochrane, A. L. | 171 |
| Allen, Porter | 209 | Boswell, T. S. | 325 | Coffin, Samuel Prescott | 170, 449 |
| Allen, W. C. | 448, 490 | Bowman, D. C. | 128 | Cohen, A. Burton | *290, 325 |
| Allshul, A. C. | 42 | Bowser, A. E. | 82 | Coleman, E. | 368 |
| Amundson, Anton | 130 | Boyd, William N. | 128, 170 | Colgan, R. J. | 365 |
| Anderson, Anton | 128, 168 | Boyd, William S. | 131 | Colligan, A. F. | 168 |
| Anderson, E. F. | 328 | Boyle, J. H. | 37 | Condon, H. R. | 204 |
| Anderson, George | 365 | Brandt, E. L. | 286 | Congdon, C. O. | 490 |
| Anderson, G. E. | 454 | Breckinridge, W. L. | 167 | Conkling, W. A. | 491 |
| Anderson, R. D. | 207 | Breit, J. S. | 129, 365 | Connors, E. C. | 166 |
| Andrew, W. A. | 328 | Brennan, James | 288 | Connolly, J. H. | 365 |
| Andrews, L. | 166 | Bressler, R. E. | 454 | Conover, J. L. | 365 |
| Andrews, Morton C. | *1413 | Brew, M. J. | *129, 130 | Cooley, Prentiss L. | 363 |
| Archbold, H. L. | 286 | Brewer, J. A. | 413 | Cooper, G. K. | 413 |
| Archer, William | 138 | Brinley, Clarence C. | 454 | Cope, C. G. | 170 |
| Armistage, A. D. | 329 | Brinser, C. E. | *208 | Cotter, J. C. | 329 |
| Armstrong, Calvin | 327 | Bristow, J. E. | 209, 248 | Cottingham, Geo., Jr. | 490 |
| Armstrong, Reuben | 325 | Brooks, E. A. | 173 | Cottingham, I. A. | 166, 287 |
| Armstrong, S. E. | 325 | Brown, C. B. | 448 | Coulson, Ray H. | 410 |
| Artman, H. R. | 168 | Brown, E. J. | 327 | Coulton, Harry | 130, 365 |
| Ashbaugh, C. A. | 286 | Brown, H. D. | 130, 365 | Covert, W. T. | 207 |
| Atkinson, W. S. | 174 | Brown, Harold L. | 289 | Cowan, J. L. | 171 |
| Atwood, J. A. | *1166, *171 | Brown, R. H., Jr. | 42 | Cowsert, L. A. | 328 |
| Avars, E. J. | 207 | Brown, Stephan Pearson | 38 | Craig, C. R. | 329 |
| B | | Brown, Thomas | 364 | Cravath, Paul D. | 249 |
| Bachar, Robert | 38 | Brown, T. W. | 38 | Crisley, J. P. | 413 |
| Backus, Milo M. | 287 | Brown, W. E. | 413 | Crispen, C. L. | 363 |
| Baker, Charles Whiting | *113 | Brownrigg, J. N. | *207 | Critchfield, W. P. | 363, 365 |
| Baker, Joseph B. | 208 | Brumley, D. J. | 37 | Cross, John H. | 289 |
| Baldwin, A. S. | 164 | Bryan, J. A. | 327 | Crowley, D. J. | 454 |
| Baldwin, L. W. | 127 | Bryan, John A. | 327 | Cullen, J. F. | 411, 449 |
| Baldwin, R. S. | 329 | Bryson, B. H. | 166 | Culligan, T. F. | 411 |
| Baldwin, W. A. | *204 | Buckley, J. E. | 170 | Cummin, J. H. | *130 |
| Ballentine, C. N. | 41 | Burbank, George Barker | *172 | Cummings, W. | 209 |
| Ballantyne, G. H. | 363 | Burns, J. J. | 327 | Cummings, William F. | 167 |
| Bardwell, R. C. | 448 | Burt, A. M. | 166 | Cunningham, R. H. | 206 |
| Barker, P. L. | 411 | Busch, H. F. | 167 | Curtis, A. L. | 166 |
| Barlow, H. E. | 168 | Bush, Colonel Lincoln | *82 | Curtis, L. G. | 410 |
| Barlow, J. Q. | 247 | Butterfield, H. B. | 249 | Cushing, E. B. | *126 |
| Barlow, O. M. | 164 | C | | Cushing, W. C. | *368 |
| Barnaby, C. L. | 248 | Caldwell, J. F. | 205 | Cutshall, Harvey W. | |
| Barnoske, F. M. | 170 | Callen, J. M. | 174 | | |
| Barrett, Edward E. | *83 | Calori, J. G. | 80 | | |
| Barrett, J. E. | 166 | Campbell, C. N. | 325 | | |
| Barrett, T. C. | 411 | Campbell, C. W. | 206 | | |
| Barrett, W. C. | 363 | Campbell, J. | 365 | | |
| Barry, Harold Bradford | 168 | Campbell, J. E. | 38, 130 | | |
| Bartelstone, J. | 365 | Campbell, J. G. | 131 | | |
| Bassett, H. M. | 205 | Canby, J. L. | 325 | | |
| Bassett, J. S. | 490 | Canfield, R. W. | 325 | | |
| Batey, W. A. | 491 | Cannon, C. M. | 410 | | |
| Beall, L. L. | 327 | Capps, J. I. | 329 | | |
| Bean, L. H. | 329 | Carlson, O. | 248 | | |
| Bean, Louis V. | *410 | Carnahan, O. F. | 327 | | |
| Beard, M. H. | 286, 327 | Carpenter, H. R. | 167 | | |
| Beasley, S. M. | 328 | Carr, John E. | 173 | | |
| Beider, Charles A. | *174 | Carson, D. B. | 454 | | |
| Belcher, R. S. | 205, 246 | Carter, E. Ben. | 326 | | |
| Bennett, F. K. | 246 | Cartwright, H. B. | 168 | | |
| Bennett, V. A. | 411 | Case, Willard L. | 329 | | |
| Benson, G. L. | 491 | Chasteen, C. H. | 449 | | |
| Bergsen, W. J. | 169 | Chenery, C. T. Major | 329 | | |
| Berry, J. S. | *171 | Chenoweth, Albert A. | 289 | | |
| Bird, A. M. | 248 | Cherpeske, T. J. | 365 | | |
| Birkisha, H. E. | 166 | Cherry, C. E. | 449 | | |
| Bivens, T. J. | 490 | | | | |

M

| | |
|-----------------------------|---------------|
| McCallum, N. W. | 325 |
| McCarthy, C. D. | 327 |
| McCarthy, William | 249 |
| McComb, Richard J. | 42 |
| McConnell, I. W. | 329 |
| McCormick, Charles H. | 454 |
| McCrea, James A. | 448 |
| McCullough, Charles H., Jr. | 1211 |
| McCurdy, J. F. | 126 |
| McDonald, B. M. | 410 |
| McFadden, P. H. | 129 |
| McGinley, John P. | 329 |
| McIlhenn, E. H. | 166 |
| McInerney, Joseph | 287 |
| McKeen, Benjamin | 125 |
| McKeon, J. V. | 205 |
| McLennan, J. A. | 132 |
| McMunn, Capt. W. H. | 329 |
| McNab, J. V. | 246 |
| McNairy, O. F. | 410 |
| McNamara, J. F. | 411 |
| McNamara, J. S. | 249 |
| McShane, Mike | 209 |
| Mabile, J. B. | 448 |
| MacArthur, C. P. | 207 |
| Mackenzie, A. C. | 37 |
| Mackenzie, John R. | 37 |
| Madden, P. H. | 38 |
| Maguire, Arthur | 166 |
| Mahl, F. W. | 171 |
| Main, W. T. | 206 |
| Mallet, Anatole | 163 |
| Malloy, S. J. | 247 |
| Malone, Captain George B. | 413 |
| Manning, R. W. | 449 |
| Markley, A. S. | 1450 |
| Marshall, C. C. | 171 |
| Marshall, C. S. | 171 |
| Marshall, J. F. | 210 |
| Marshall, W. W. | 206 |
| Martin, E. L. | 167 |
| Massenburg, W. G. | 286 |
| Massey, Robert V. | 129 |
| Mathews, A. A. | 129 |
| Mathews, William H. | 249 |
| Maxon, H. C. | 363, 364 |
| Maxwell, A. S. | 329 |
| Mayeski, T. R. | 84 |
| Mayo, E. E. | 325, 327, 410 |
| May, F. K. | 171 |
| Meek, R. W. | 128 |
| Melson, M. L. | 1449 |
| Menard, Joseph P. | 246 |
| Mentz, R. J. | 131 |
| Meriwether, David, Jr. | 163 |
| Messinger, C. F. | 494 |
| Metcalfe, William | 170 |
| Metzger, G. C. | 249 |
| Meyer, Francis J. | 325, 327, 364 |
| Milburn, J. H. | 166 |
| Miller, Harry | 84 |
| Miller, L. C. | 246 |
| Miller, P. W. | 364, 365 |
| Miller, R. C. | 248 |
| Miller, Walter E. | 363 |
| Miller, W. F. | 207, 246, 286 |
| Millick, John B. | 329 |
| Mitchell, J. M. | 38 |
| Mitguard, A. | 327, 365 |
| Moberly, W. A. | 38 |
| Monahan, J. A. | 494 |
| Montgomery, J. F. | 205, 206 |
| Montgomery, P. | 209 |
| Moore, Ralph P. | 171 |
| Moore, Tom | 80 |
| Moore, William Harley | 1411 |
| Morgan, Orlando K. | 206 |
| Moriarty, K. L. | 205 |
| Morphy, L. G. | 246, 250 |
| Morris, E. W. | 1288 |
| Morris, William T. | 172 |
| Morris, W. W. | 450 |
| Morrison, H. K. | 247 |
| Morrison, W. W. | 129 |
| Morse, C. H. | 411, 449 |
| Morse, E. R. | 173 |
| Moss, Jerome A. | 329 |
| Motsett, Charles H. | 413 |
| Moursund, E. M. | 167, 206 |
| Mueller, Frank E. | 83 |
| Mulkern, D. F. | 38, 130 |
| Murphy, L. C. | 37 |
| Murr, L. A. | 168 |
| Murray, E. F. | 82 |
| Murray, Samuel | 166 |
| Murray, W. A. | 325 |
| Murray, W. L. | 329 |
| Myer, W. F. | 289 |

N

| | |
|-----------------|----------|
| Nace, R. R. | 209 |
| Nagel, J. R. | 490 |
| Nash, C. L. | 491 |
| Nash, Frank D. | 326 |
| Nauman, F. D. | 448 |
| Naylor, F. R. | 166 |
| Neaton, C. Y. | 327 |
| Neal, D. N. | 170 |
| Nelson, Barney | 329 |
| Nelson, M. E. | 449 |
| Nelson, O. T. | 167, 247 |
| Neubert, J. V. | 287, 325 |
| Neuenhan, C. A. | 413 |
| Neville, E. | 328, 365 |
| Newton, A. W. | 129, 167 |

| | |
|-------------------|---------------|
| Newton, E. S. | 171 |
| Nichol, J. H. | 207 |
| Nicholson, R. F. | 247, 364, 410 |
| Noble, D. C. | 413 |
| Noble, H. A. | 413 |
| Noble, William S. | 414 |
| Noll, V. C. | 286 |
| Noren, G. A. | 167 |
| Nye, C. M. | 166 |

O

| | |
|-------------------|-----------------|
| Oatman, J. B. | 166 |
| Ochs, J. J. | 363 |
| O'Connor, J. | 205 |
| O'Donnell, R. L. | 125, 1448, 1450 |
| O'Leary, John | 327 |
| Oliphant, A. C. | 329 |
| Olstead, O. A. | 84 |
| O'Neill, P. J. | 38 |
| Ordeman, S. H. | 449 |
| Osborne, S. H. | 449 |
| Otter, William D. | 131 |
| Owen, Galen B. | 128, 168 |
| Owen, R. | 167 |

P

| | |
|---------------------------|-----------------|
| Pace, R. T. | 171 |
| Packard, Daniel B. | 449 |
| Paddock, Edwin F. | 329 |
| Padley, H. P. | 168 |
| Parker, C. J. | 205 |
| Parker, G. H. | 30 |
| Parsons, P. E. | 1450 |
| Parsons, R. O. | 448 |
| Parsons, Robert S. | 127 |
| Passel, H. F. | 129, 166 |
| Passino, Fred J. | 211 |
| Paterson, T. R. | 209 |
| Patterson, J. C. | 129 |
| Patterson, Ralph E. | 364 |
| Patton, William H. | 82 |
| Patton, W. R. | 82 |
| Payne, G. W. | 490 |
| Payne, J. B. | 329 |
| Peebles, S. T. | 329 |
| Pegram, Robert B. | 171 |
| Pelham, William | 327 |
| Pennebaker, E. S. | 166 |
| Persons, C. L. | 167 |
| Peters, Harry T. | 329 |
| Peters, Ralph, Jr. | 246 |
| Peterson, A. W. | 209 |
| Peterson, E. W. | 171 |
| Petry, H. | 38, 365 |
| Petry, H. M. | 410 |
| Petticrew, C. B. | 286, 410 |
| Pettit, H. B. | 205 |
| Pheney, Patrick | 449 |
| Phillips, G. A. | 364 |
| Phillips, T. L. | 363 |
| Phillips, T. M. | 132 |
| Pickering, B. F. | 1411, 1449 |
| Pickett, A. G. | 131 |
| Pierce, R. | 246, 249 |
| Piper, E. B. | 170 |
| Pitcalrn, Norman B. | 247 |
| Pitcher, P. J. | 491 |
| Pollard, Harry | 325, 365 |
| Pollard, W. N. | 38 |
| Poor, C. O. | 494 |
| Porter, A. H. | 166 |
| Porter, C. B. | 171 |
| Porter, L. E. | 82 |
| Porter, W. W. | 365 |
| Possinger, William | 449 |
| Pratt, Frederick S. | 82 |
| Pressinger, Whitfield, P. | 1290 |
| Prince, B. L. | 82 |
| Prouty, Charles A. | 80 |
| Pulford, William | 249 |
| Pulliam, S. H. | 325 |
| Purdon, C. D. | 129 |
| Purdy, J. W. | 325 |
| Putnam, L. J. | 129, 1286, 1288 |
| Pyle, G. C. | 363 |

R

| | |
|--------------------------------|----------|
| Raleigh, W. H. | 206, 208 |
| Ralston, P. E. | 364 |
| Ramage, W. H. | 132 |
| Ramsey, Colonel C. W. P. | 37 |
| Ramsey, F. R. | 129 |
| Randolph, Isham | 1366 |
| Randolph, Major O. C. F. | 413 |
| Randolph, N. P. | 171 |
| Ransome, A. W. | 84 |
| Rask, J. A. | 129 |
| Rasmussen, T. | 209 |
| Rautenstrauch, Walter | 413 |
| Ray, G. J. | 168 |
| Ray, G. T. | 491 |
| Raymer, A. R. | 166 |
| Raymond, Edward | 860 |
| Reddick, C. B. | 328 |
| Redding, J. H. | 204 |
| Redfield, J. A. S. | 206, 248 |
| Reid, Lieutenant-Colonel J. G. | 363 |
| Reilly, F. C. | 84 |
| Reinhold, E. V. | 450 |
| Renz, W. F. | 248 |
| Replodge, J. Leonard | 329 |
| Rettinghouse, H. | 168, 289 |
| Rex, George E. | 174, 205 |
| Rhoads, H. | 411 |
| Rhoads, O. H. | 248, 249 |
| Rice, N. M. | 288 |

| | |
|-------------------------------|---------------|
| Richardson, C. P. | 129 |
| Richardson, Colonel Edward B. | 250 |
| Richart, B. D. | 490 |
| Richburg, B. N. | 170 |
| Richey, C. W. | 207 |
| Ridgely, John T. | 38 |
| Righter, George E. | 247 |
| Riley, T. | 327 |
| Ringer, F. | 167 |
| Rintoul, D. T. | 365 |
| Ripley, Lieut.-Col. B. | 80, 128 |
| Ripley, Edward F. | 37 |
| Ripley, H. L. | 247 |
| Rivers, W. E. | 364, 448 |
| Rivett, R. | 211 |
| Robb, Russell | 82 |
| Robenheiser, L. A. | 80 |
| Roberts, Dan W. | 365 |
| Roberts, John C., Jr. | 454 |
| Roberts, John J. | 83 |
| Roberts, Col. W. R. | 83 |
| Robinson, Dwight P. | 329 |
| Robinson, G. H. | 210 |
| Robinson, Dwight P. | 173 |
| Rockwell, N. | 132 |
| Rodda, M. H. | 173 |
| Rodenbaugh, H. N. | 326 |
| Rodgers, J. G. | 125 |
| Roe, W. E. | 246 |
| Rogers, Howard L. | 82 |
| Rogers, H. S. | 286 |
| Romney, Leo | 368 |
| Roper, S. | 365 |
| Roper, Samuel C. | 411 |
| Rosebalm, J. E. | 366 |
| Ross, Clyde P. | 83 |
| Ross, R. W. | 246 |
| Ross, William B. | 249 |
| Rounseville, D. | 206, 286, 287 |
| Row, H. D. | 205, 247, 248 |
| Rowell, Frank B. | 167 |
| Rowell, W. E. | 329 |
| Rowlan, S. V. | 448 |
| Royce, Frederick P. | 82 |
| Ruhl, Harry T. | 1172 |
| Rummel, F. M. | 1248 |
| Russ, W. E. | 42 |
| Russell, John B. | 167, 204 |
| Ryan, M. F. | 413 |
| Ryan, T. H. | 38 |

S

| | |
|---------------------|----------|
| Safford, H. R. | 127 |
| Sanders, G. | 328 |
| Sargent, Henry J. | 167 |
| Satley, E. C. | 173 |
| Savage, A. W. | 170 |
| Sawtelle, F. W. | 80 |
| Sawyer, Henry B. | 82 |
| Scales, W. H. | 42 |
| Scanlon, J. C. | 329 |
| Schafer, N. W. H. | 448 |
| Schermerhorn, A. D. | 490 |
| Schlerbecker, H. F. | 413 |
| Schmiedel, J. Jr. | 248 |
| Schneider, H. C. | 38 |
| Schram, I. H. | 363 |
| Schulde, John N. | 329 |
| Schwab, J. C. | 247 |
| Schwab, J. E. | 363 |
| Schwed, J. F. | 205 |
| Schwinn, F. S. | 169 |
| Scott, D. S. | 37 |
| Scout, Walter B. | 139 |
| Scribner, N. E. | 491 |
| Scull, M. A. H. | 364 |
| Searls, Niles | 325 |
| Seib, H. W. | 167 |
| Sexton, John R. | 160, 325 |
| Sexton, J. P. | 411 |
| Shauer, J. | 80 |
| Shaw, A. S. | 364 |
| Shillinger, J. G. | 491 |
| Shipman, E. H. | 166 |
| Shoemaker, H. | 80 |
| Shoop, W. R. | 1171 |
| Shrodes, W. R. | 171 |
| Siegel, Hugo L. | 84 |
| Silliman, J. M. | 286 |
| Simmons, H. H. | 289 |
| Simmons, Thomas W. | 365 |
| Simpson, C. W. | 206 |
| Sinclair, Robert | 212 |
| Skullman, Thomas J. | 126 |
| Skinner, L. H. | 71 |
| Slabotsky, Harry | 246 |
| Sloan, E. M. | 286, 290 |
| Smart, George G. | 327 |
| Smiley, G. R. | 410 |
| Smink, Frank C. | 174 |
| Smith, C. W. | 411 |
| Smith, D. G. | 170 |
| Smith, E. W. | 168 |
| Smith, George M. | 246 |
| Smith, Huntington | 325 |
| Smith, J. H. | 38 |
| Smith, Noel W. | 246 |
| Smith, R. C. | 287 |
| Smith, R. Frank | 211 |
| Smith, R. J. | 329 |
| Smith, R. M. | 490 |
| Smith, Willard D. | 82, 454 |
| Smith, W. R. | 363 |
| Snow, Fred W. | 1174 |
| Somers, C. E. | 491 |
| Sommerville, B. V. | 207 |
| Spahr, H. M. | 207 |
| Spargus, J. | 327 |
| Sparks, Arthur | 286 |

